

PATENT
57547-0424**REMARKS**

This amendment increases the number of independent claims by one (1) and the total number of claims by fifteen (15). Please deduct the amount of \$356.00 for the extra claims from deposit account 501659.

The reasons for allowance of claims 1 to 33 have been set out in the earlier amendment filed on March 9, 2004. The present amendment merely adds additional new claims 34 to 48 to more fully express the invention of this application.

New independent claim 34 recites a system comprising a computerized image generator that formulates data values corresponding to locations in a field of view. The image generator derives first and second digital video signals from the set of data values and transmits the video signals as two channels via an output. The video signals each include at least one screen image comprising sets of bits defining a numerical value expressing the data value corresponding to that location in the field of view scaled relative to a respective range of possible data values separated by a respective incremental resolution step value for said range. The sets of bits of the screen image or images of the first video signal are all determined for a first range with a first resolution step value, and the sets of bits of the screen image or images of the second video signal are all determined for a second range with a second resolution step value that is smaller than said first resolution step value.

No reference shows a system transmitting two video channels of this type.

The cited Hsu reference discloses a system for extracting objects from an image-sensing input and identifying them. Hsu does not have an image generator producing a two channels of data organized as claimed, with different ranges and resolution step values applied to a formulated group of data values. Hsu only teaches retrieving an image, and then processing it to

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segment it to identify objects. See Hsu, col. 4, lines 17 – 21. Identification is accomplished by comparing the segmented objects to an image library. Hsu, col. 4, lines 22 – 24 and also lines 48 to 52. Hsu discusses the use of multi-level resolution calculations based on a single image to produce segmentation, but this is not a transmission of two video signals, but rather an internal manipulation of data values. See. e.g., col. 13. lines 35 to 53. Hsu suggests no output of two video signals scaled relative to different resolution step values.

Wilson et al., Tanaka, Cooper and Warner teach various details of infra-red detecting or imaging systems, but none teach or suggest a system as claimed where data values are transmitted as two channels of video signals scaled relative to respective ranges with different resolution step values.

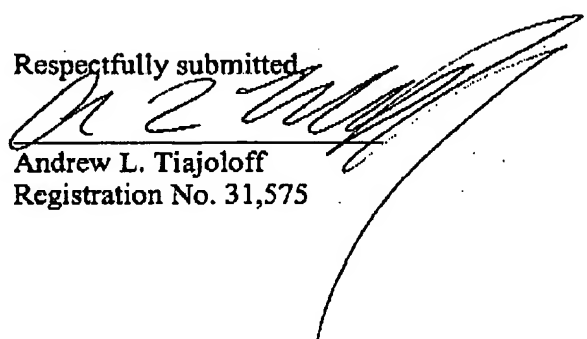
The prior art consequently fails to suggest the system of claim 34.

New claims 35 to 48 all depend directly or indirectly from claim 34, and therefore distinguish therewith over the prior art.

Formal allowance is respectfully requested.

Should any questions arise, the Examiner is invited to telephone attorney for applicants at 212-490-3285.

Respectfully submitted,



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